ABSTRACT

LASER DEVICE FOR DRILLING HOLES IN COMPONENTS OF A FLUID INJECTION DEVICE

The laser machining device is provided for drilling holes in components of a fluid injection device, particularly for injecting fuel into a combustion engine. The laser resonator (4) is formed by an optically pumped diode laser solid state active medium. The resonator is arranged for supplying primary pulses in the microsecond range. Modulation means (8) are arranged between the resonator and a machining head (24) for modulating the amplitude of the primary pulses supplied by the resonator, so as to obtain a secondary pulse train of smaller length for each of said pulses.

Figure 1